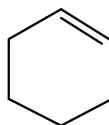




>>Entry Name: Cyclohexene, 9CI



CAS Registry Number: 110-83-8

Molecular Formula: C₆H₁₀

Molecular Weight: 82.145

Accurate Mass: 82.07825

Percentage Composition: C 87.73%; H 12.27%

Source/Synthesis: Manuf. by dehydration of cyclohexanol

Use/Importance: Solvent, petrol additive, chemical intermed. Used in the manuf. of adipic acid for nylon-66 prodn.

Physical Description: Liq.

Melting Point: Mp -104°. Fp -103.5°

Boiling Point: Bp 83°

Solubility: Insol. H₂O; sol. EtOH

Density: d₄²⁰ 0.81

Refractive Index: n_D²⁰ 1.4465

Other Data: Coml. samples contain 2,5-di-*tert*-butyl-4-methylphenol or a similar stabiliser. Undergoes ring-opening homopolym. Catalysed by W compds. Homopolym. catalysed by [Re(CO)₅Cl].EtAlCl₂ gives a homopolymer in which the rings are retained

Hazard & Toxicity: Highly flammable, fl. p. <-20°, autoignition temp. 244/310°. Respiratory tract irritant. Anaesthetic and CNS depressant. Defats skin on contact. OES: long-term 300 ppm

Aldrich: 24099-0

Fluka: 29230

>>Derivative: Nitrosocchloride

Synonym(s): 1-Chloro-2-nitrosocyclohexane

Molecular Formula: C₆H₁₀ClNO

Molecular Weight: 147.604

Accurate Mass: 147.045091

Percentage Composition: C 48.82%; H 6.83%; Cl 24.02%; N 9.49%; O 10.84%

Melting Point: Mp 153 dec.°

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